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**Smart memory card balance changing - retrieving old balance from memory location indicated by value of first pointer and adding offset value to the value of second pointer**

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Inventor: FEIKEN A

Number of Countries: 043 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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EP 831433	A1	19980325	EP 96202661	A	19960924	199816 B
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WO 9813793	A1	19980402	WO 97EP4880	A	19970904	199820
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AU 9746218	A	19980417	AU 9746218	A	19970904	199834
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EP 929879	A1	19990721	EP 97944854	A	19970904	199933
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US 6070795	A	20000606	US 97935914	A	19970923	200033
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Priority Applications (No Type Date): EP 96202661 A 19960924

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 831433	A1	E	10	G07F-007/08	
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE

WO 9813793	A1	E	18	G07F-007/08	
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Designated States (National): AU BG BR CA CN CZ EE HU IL IS JP KR LT LV  
MX NO NZ PL RO SG SI SK TR

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MC NL PT SE

AU 9746218	A			G07F-007/08	Based on patent WO 9813793
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EP 929879	A1	E		G07F-007/08	Based on patent WO 9813793
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU  
NL PT SE

NZ 334325	A			G07F-007/08	Based on patent WO 9813793
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AU 719987	B			G07F-007/08	Previous Publ. patent AU 9746218
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Based on patent WO 9813793

US 6070795	A			G06K-005/00	
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Abstract (Basic): EP 831433 A

The method involves retrieving an old balance from a memory location indicated by a value of a first pointer (CRP). An offset value is added to the value of a second pointer (NRP). The value is initially equal to the value of the first pointer (CRP). A new balance is stored in the memory location indicated by the sum of the value of the first pointer (CRP) and the offset. The offset is added to the value of the first pointer (CRP). The changing involves a decrease of the balance, while the offset equals one.

The method further entails storing in the smart card (1) a random number (R2) received from the terminal (2). The random number (R2) stored in the smart card (1) is invalidated if the card receives a new balance influencing command.

USE - For recovering transaction made with smart card.

ADVANTAGE - Allows interrupted payment transactions to be completed.

Dwg.1,2/6

Title Terms: SMART; MEMORY; CARD; BALANCE; CHANGE; RETRIEVAL; BALANCE; MEMORY; LOCATE; INDICATE; VALUE; FIRST; POINT; ADD; OFFSET; VALUE; VALUE; SECOND; POINT

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International Patent Class (Main): G06K-005/00; G07F-007/08

International Patent Class (Additional): G06F-012/14; G06F-012/16; G06K-019/067

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